

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

Associated Occupation: [Medical Equipment Repairers \(49-9062\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Medical Equipment Repairers (49-9062)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	15.0	17.5	>	Current knowledge level is likely sufficient
Engineering and Technology	5.7	14.0	11.7	<	Expanded education and/or training may be required
Mechanical	6.8	13.9	16.4	>	Current knowledge level is likely sufficient
Physics	4.3	8.7	7.5	<	Expanded education and/or training may be required
Chemistry	4.8	8.2	5.5	<<	Extensive education and/or training may be required
Design	5.2	7.2	9.6	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	7.0	6.9	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Medical Equipment Repairers (49-9062)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	13.9	11.1	<	A higher skill level may be required
Repairing	3.4	13.2	13.3	0	Current skill level may be sufficient
Troubleshooting	4.5	12.9	12.0	0	Current skill level may be sufficient
Quality Control Analysis	5.9	11.4	13.3	>	Skill level is likely sufficient
Operation Monitoring	6.6	11.2	12.6	>	Skill level is likely sufficient

Equipment Selection	3.3	10.2	10.5	0	Current skill level may be sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94				
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Medical Equipment Repairers (49-9062)						
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Finger Dexterity	7.6	12.8	12.9	0	Current ability level may be sufficient	
Visualization	7.5	12.2	11.0	<	Some improvement in abilities may be required	
Perceptual Speed	7.4	9.9	10.7	0	Current ability level may be sufficient	
Hearing Sensitivity	5.6	9.4	9.3	0	Current ability level may be sufficient	
Visual Color Discrimination	6.4	9.4	10.6	>	Current ability level is likely sufficient	
Memorization	5.6	8.4	8.2	0	Current ability level may be sufficient	
Speed of Closure	5.9	8.3	8.8	0	Current ability level may be sufficient	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 99
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Medical Equipment Repairers (49-9062)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Analyze technical data, designs, or preliminary specifications	47	
Calibrate or adjust electronic equipment or instruments to specification	67	
Communicate technical information	4	
Conduct sequential tests to locate electronic malfunction	77	
Determine installation, service, or repair needed	58	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical fixtures or components	71	
Install electronic equipment, components, or systems	62	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/connect electrical equipment to power circuit	57	
Instruct customers in product installation, use, or repair	82	
Maintain equipment service records	85	
Maintain inventory of supplies	84	
Modify electrical or electronic equipment or products	74	

Obtain information from clients, customers, or patients	40
Perform safety inspections in industrial, manufacturing or repair setting	32
Plan or organize work	51
Read blueprints	10
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair electronic components, equipment, or systems	74
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2
Use interpersonal communication techniques	10
Use oscilloscopes in electronics repair	77
Use precision tools in electronics repair	71
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 82

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Medical Equipment Repairers (49-9062)

Tools and Technologies	Exclusivity
Anti static equipment and supplies	56
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1

Information exchange software	1
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Network applications software	1
Power tools	2
Prying and bending tools	10
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Transportation related equipment and instruments	29
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.